

## CLAIMS

What is claimed is:

- Sub A*
- 5        1. A selective call communications unit arranged and constructed for extended battery life comprising in combination:
- 10      5        a first receiver having low power consumption for receiving a call signal to provide an enable signal; and
- 15      10        a messaging receiver, activated by said enable signal, for receiving a message intended for the selective call communications unit.
- 20      15        2. The selective call communications unit of claim 1 wherein said first receiver is one of a super regenerative receiver, regenerative receiver, tuned radio frequency receiver, ultrasonic receiver, and passive receiver.
- 25      20        3. The selective call communications unit of claim 2 wherein said first receiver operates according to a duty cycle including a down time period and an up time period, said down time period exceeding said up time period.
- 30      25        4. The selective call communications unit of claim 2 wherein said first receiver receives said call signal and remains powered up to detect a selective call address.

- 5        The selective call communications unit of claim 4 wherein said first  
receiver compares said selective call address to an address for the  
selective call communications unit and when said address matches  
5        provides said enable signal and when said address does not match  
resumes operation according to said duty cycle.
6.       The selective call communications unit of claim 1 wherein said call  
signal includes one of an amplitude modulated signal and a frequency  
10      modulated signal.
7.       The selective call communications unit of claim 1 wherein said  
messaging receiver is one of a super heterodyne receiver, a zero  
intermediate frequency receiver, a low intermediate frequency receiver  
15      and a delay line receiver.
8.       The selective call communications unit of claim 1 wherein said  
messaging receiver activated by said enable signal receives a protocol  
arranged for messaging purposes.

9. The selective call communications unit of claim 8 wherein said messaging protocol uses a direct sequence spread spectrum phase shift keyed modulation.
- 5 10. The selective call communications unit of claim 7 wherein a power consumption of said messaging receiver exceeds a power consumption of said first receiver.
11. The selective call communications unit of claim 1 further including 10 a battery based power supply to power said first receiver and said messaging receiver, wherein an expected battery life is on the order of a shelf life for a battery included in said battery based power supply.
12. The selective call communications unit of claim 7 wherein said 15 messaging receiver activated by said enable signal receives a selective call signal and detects a selective call address.

13. A method in a selective call communications unit of extending  
battery life, the method including the steps of:  
first receiving a call signal using a first receiver to provide an  
enable signal in a first low power consumption mode; and  
5 second receiving, responsive to said enable signal and in a second  
power consumption mode using a messaging receiver, a message  
intended for the selective call communications unit.
14. The method of claim 13 wherein said first receiving said call signal  
10 in said first low power consumption mode uses one of a super  
regenerative processes, regenerative processes, tuned radio frequency  
processes, ultrasonic processes, and passive receiving processes.
15. The method of claim 13 wherein said first receiving said call signal  
15 in said first low power consumption mode includes operating according  
to a duty cycle including a down time period and an up time period, said  
down time period exceeding said up time period.
16. The method of claim 14 wherein said first receiving said call signal  
20 in said first low power consumption mode includes detecting a selective  
call address.

17. The method of claim 16 wherein said first receiving said call signal  
in said first low power consumption mode further includes comparing  
said selective call address to an address for the selective call  
communications unit and when said address matches providing said  
enable signal and when said address does not match resuming operation  
according to said duty cycle.

18. The method of claim 13 wherein said first receiving said call signal  
10 in said first low power consumption mode includes receiving one of an  
amplitude modulated signal and a frequency modulated signal.

19. The method of claim 13 wherein said second receiving said  
message in a second power consumption mode uses one of a super  
15 heterodyne processes, a zero intermediate frequency processes, a low  
intermediate frequency processes and a delay line processes.

20. The method of claim 13 wherein said second receiving said message includes receiving a protocol arranged for messaging purposes.

21. The method of claim 20 wherein said receiving said protocol includes receiving a direct sequence spread spectrum phase shift keyed modulation.
- 5 22. The method of claim 19 wherein said second receiving said message consumes more power than said first receiving said call signal.
23. The method of claim 13 further including providing a battery based power supply wherein an expected battery life is on the order of a 10 shelf life for a battery included in said battery based power supply.
24. The method of claim 19 wherein said second receiving said message includes receiving a selective call signal and detecting a selective call address.

~~25. A selective call communications unit arranged and constructed for extended battery life comprising in combination:~~

a first receiver having low power consumption for receiving a call to provide an enable signal;

5 a messaging receiver, activated by said enable signal, for receiving  
a message intended for the selective call communications unit; and  
a transmitter, activated by said enable signal for responding to said  
message.

10 26. The selective call communications unit of claim 1 further including  
a battery based power supply for powering said first receiver, said  
messaging receiver, and said transmitter wherein an expected battery life  
is on the order of a shelf like for a battery included in said battery based  
power supply.

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27. The selective call communications unit of claim 1 wherein said first receiver is a regenerative receiver that receives an amplitude modulated signal and thereafter remains active to receive a selective call address.

20 28. The selective call communications unit of claim 27 further  
including a comparator for comparing said selective call address with an

address for the selective call communications unit and when said address  
matches provide said enable signal.

29. The selective call communications unit of claim 1 wherein said  
5 messaging receiver activated by said enable signal receives a selective call  
address.
30. The selective call communications unit of claim 29 further  
including a comparator for comparing said selective call address with an  
10 address for the selective call communications unit and when said address  
matches remain active to receive said message.

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